

ABSTRACT

There is provided a light diffusing screen for a single light source-type rear projection television, for use in combination with a Fresnel lens sheet, which can reduce scintillation and, at the same time, can regulate the surface roughness of the screen and can provide good images. The light diffusing screen for use in combination with a Fresnel lens sheet is a light diffusing screen for a transmission projection screen, which comprises: a lens layer which can horizontally refract projected light; and a light diffusing layer provided on light outgoing side as compared with the lens layer, characterized in that the light diffusing layer comprises a light transparent matrix and light diffusing fine particles formed of a light transparent material dispersed in the light transparent matrix, the light diffusing layer having a multilayer structure of which the outermost layer on the light outgoing side of the light diffusing layer is a layer which diffuses light most strongly, the outermost surface layer on the light outgoing side in the light diffusing screen having a surface roughness Ra of $0.2\ \mu\text{m} \leq \text{Ra} \leq 1.0\ \mu\text{m}$.